

Title (en)
SPACECRAFT DOCKING CONNECTOR

Title (de)
RAUMFAHRZEUGANDOCKVERBINDUNG

Title (fr)
CONNECTEUR D'AMARRAGE D'ENGIN SPATIAL

Publication
EP 3175511 B1 20191023 (EN)

Application
EP 15826609 A 20150720

Priority
• US 201414444092 A 20140728
• US 2015041091 W 20150720

Abstract (en)
[origin: US9231323B1] An interface connector is provided for connecting homogenous spacecraft cells. The interface connector includes at least one male valve assembly and at least one female valve assembly. The male valve assembly includes an extendable and retractable piston having a central conduit. The female valve assembly has a central bore closed by a ball valve. Preferably, the male and female valves are positioned so that extension of the piston engages the ball valve so as to create a fluid pathway. Various components in the male and female valve assemblies are electrically conductive to allow the transmission of power and data. Further, the male valve assembly is constructed to function as a propulsion thruster when not mated to a female valve assembly.

IPC 8 full level
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B05B 1/00 (2013.01 - EP US); **B64G 1/402** (2013.01 - EP US); **B64G 1/428** (2013.01 - EP US); **B64G 1/646** (2013.01 - EP US);
F16K 3/26 (2013.01 - US); **F16L 25/01** (2013.01 - EP US); **F16L 37/002** (2013.01 - EP US); **F16L 37/36** (2013.01 - EP US);
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